

21. **Allowable Emissions:** The Permittee shall not allow or permit particulate emissions into the atmosphere from any crematory which exceed 0.1 grain per cubic foot (229 milligrams per cubic meter) of dry flue gas at standard conditions adjusted either to twelve (12) percent carbon dioxide in the exhaust gases and calculated as if no auxiliary fuel had been used or to seven (7) percent oxygen (O₂).

The Permittee shall not allow the emissions into the atmosphere from any crematory for an aggregate of more than thirty (30) seconds in any sixty (60) minutes, any air contaminant which is a shade or density darker than 20 percent opacity as measured by EPA method 9.

The Permittee shall not allow emissions into the atmosphere from the crematory to exceed the following limits:

	Daily Emission Limits	Twelve Month Rolling Average Emission Limits
Carbon Monoxide (CO)		
Nitrogen Oxides (NO _x)		
Sulfur Oxides (SO _x)		
Volatile Organic Compounds (VOCs)		

The twelve month rolling average shall be calculated at the end of each calendar month by summing the emissions over the most recent twelve calendar months.

22. **Controls:** The afterburner of the crematory shall be lit at all times during cremation operation and until burn down is complete. The afterburner secondary chamber shall be preheated to °F before insertion of the charge. Slight temperature drops during insertion are allowed. The after burner secondary chamber temperature shall be maintained at a minimum of °F during the duration of the cycle.

Accurate temperature indicators to monitor the primary chamber and after burner chamber temperatures must be installed on the crematory and maintained in good working order.

23. **Operations and Maintenance:** The crematory shall be installed and operated by properly trained personnel. The Permittee shall operate the crematory in accordance with the manufacturers instructions at all times. These instructions shall be posted on the equipment or kept readily available on the premises.
24. **Prohibitions:** The Permittee shall not conduct any burning in the crematory between sunset and the following sunrise.

The Permittee shall limit the amount of chlorinated plastics incinerated for each crematory to a maximum of ten (10) pounds per month.

25. **Record Keeping:** The Permittee shall record the total weight charged, the amount of chlorinated plastics burned, and the hours of operation for each day that the crematory is used.
26. **Testing:** Within 180 days of the initial start-up of the crematory, or within 60 days of the issuance of a new permit for existing facilities, the Permittee shall conduct a performance test for the crematory. The performance test for the crematory shall demonstrate compliance of both the emission standards of particulate emissions and visible emissions listed in "Allowable Emissions" above. If a crematory does not pass the performance test, the Permittee shall not use or operate that unit, except for testing purposes, until the unit has passed the performance test.

For determining total particulate matter, EPA Methods 1 through 5, or their EPA alternates approved by the Control Officer, shall be used. Both carbon dioxide and oxygen measurements shall be obtained simultaneously with each Method 5 run.

Determination of visible emissions compliance shall be made by a certified emissions observer or by a continuous emission monitor which is maintained and calibrated in accordance with EPA Performance Specification #1 (40 CFR, Part 60, Appendix B). A certified emissions observer shall be qualified as an expert visible emissions evaluator and so certified by the Arizona Department of Environmental Quality or by any other agency that is acceptable to the Control Officer.

The Permittee shall submit a protocol for the testing of the crematory to the Department for review and approval at least 30 days prior to commencement of testing.

The Permittee shall notify the Department in writing of the exact date and time of testing at least ten (10) days prior to commencement of testing to allow Department representatives to witness the test.

A test report including the results of all testing shall be submitted to the Department for review and a compliance determination within thirty (30) days of test completion.